REVISE RESEARCH ERU INTAKES
PROJECT 636A8-13-003
IOWA CITY VA HEALTHCARE SYSTEM
IOWA CITY, IOWA

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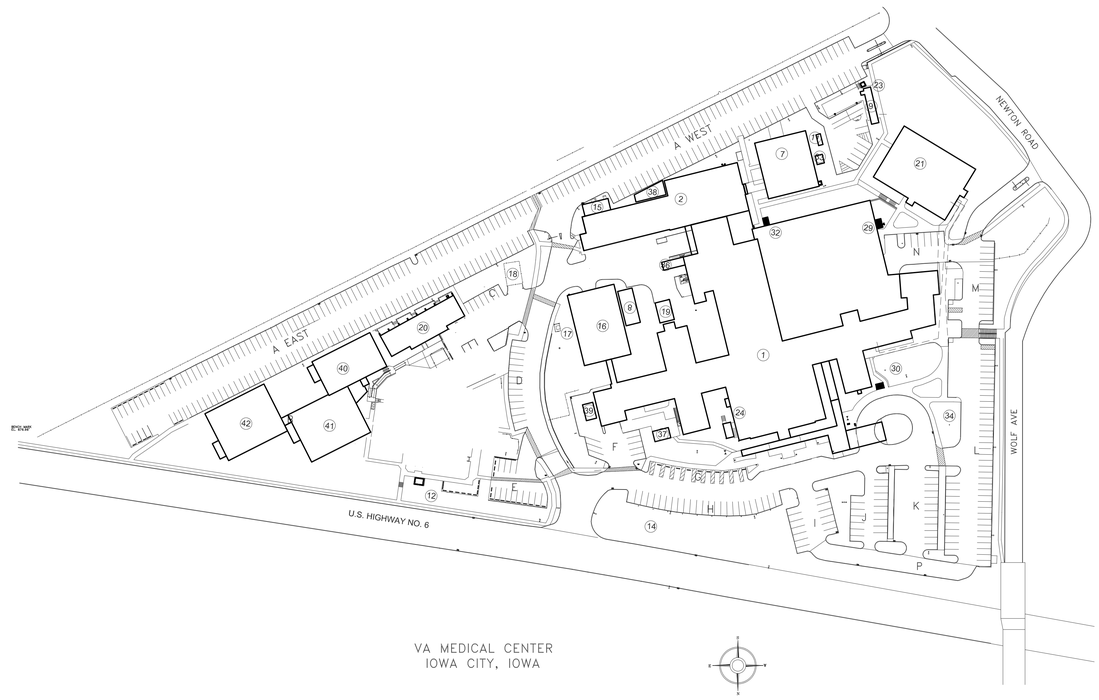

CONSTRUCTION DOCUMENTS 6-14-2013
Revisions Date

Approved Chief Engineer
Approved Medical Center Director
Approved Associate Director
Approved Chief of Staff
Approved Director for Patient Care Services

Stamp

Key Plan

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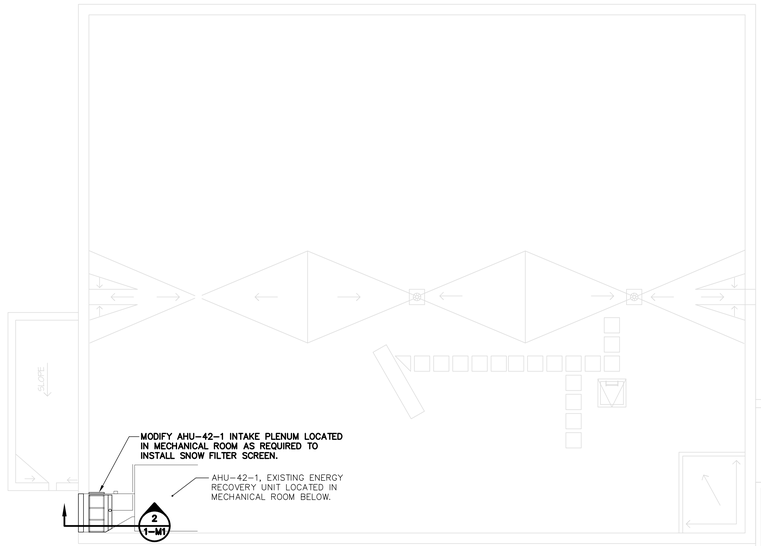
Drawing Title: COVER SHEET
Approved Project Director

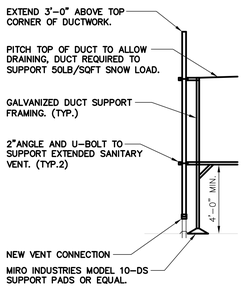
Project Title: REVISE RESEARCH ERU INTAKES
Location: IOWA CITY, IOWA
Date: 6-14-13 | Drawn: JRM | Checked: WCR | Approved: -

Project Number: 636A8-13-003
Building Number: 40, 41, 42
Drawing Number: I1
Dwg. 1 of 4

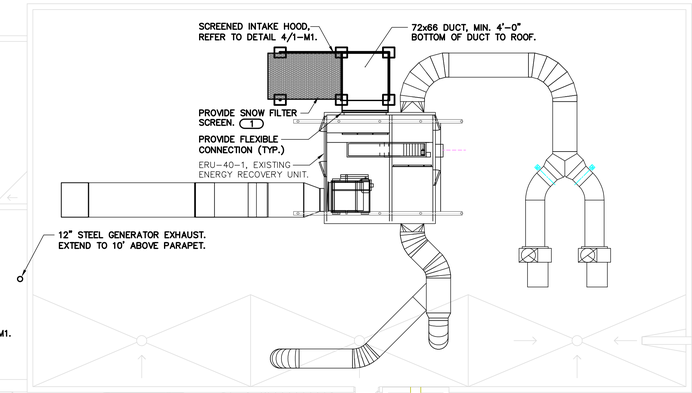
Office of Facilities Management
Department of Veterans Affairs

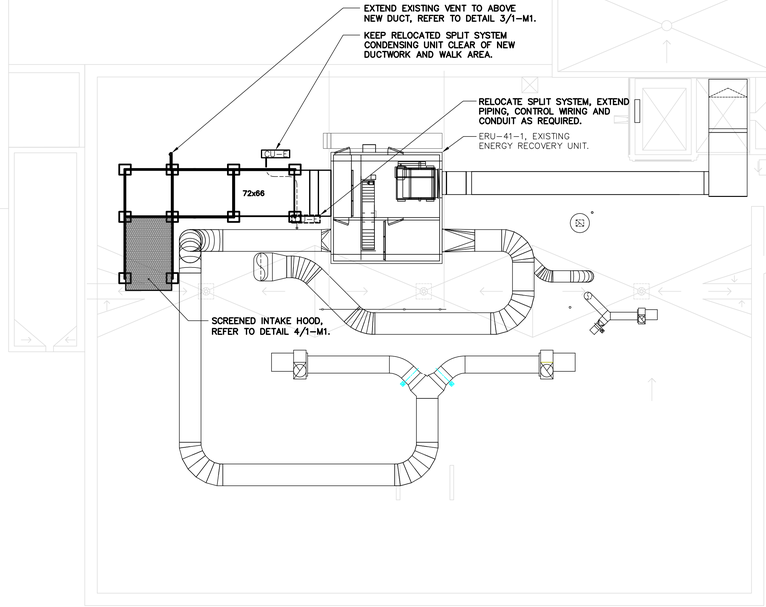
VA FORM 08-6231

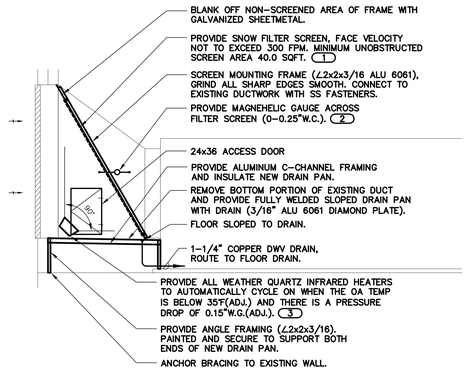




3 VENT DETAIL
NO SCALE



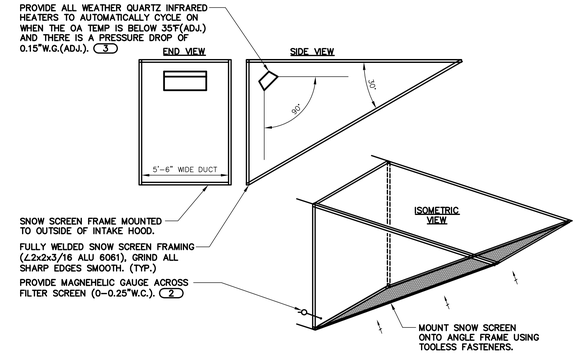




2 ENLARGED INTAKE SECTION VIEW
SCALE: 1/4"=1'-0"

NOTES:
1. NEW DRAIN PAN WILL NEED TO SUPPORT FOOT TRAFFIC. CLEANING OF SNOW SCREEN WILL REQUIRE PERSONEL TO STAND INSIDE PLENUM AND VACUUM OFF SCREEN AND/OR PERFORM COMPLETE REMOVAL OF SCREEN WITH USE OF A STEP STOOL.
2. MAXIMUM ALLOWABLE DOWNTIME OF AIR HANDLER TO PERFORM WORK IS 4 HOURS, TO BE PERFORMED DURING WARM WEATHER.

1 ROOF PLAN - MECHANICAL
SCALE: 1/8"=1'-0"



4 SCREENED INTAKE HOOD
NO SCALE

NOTES:
1. SCREEN FACE VELOCITY NOT TO EXCEED 320 FPM.
   a. ERU-40-1 MINIMUM UNOBSTRUCTED SCREEN AREA 66.0 SQFT.
   b. ERU-41-1 MINIMUM UNOBSTRUCTED SCREEN AREA 66.0 SQFT.

GENERAL SHEET NOTES
1. COORDINATE ALL EQUIPMENT DOWNTIME WITH VAMC.
2. WORK REQUIRED TO MODIFY EXISTING INTAKE PLENUM/HOODS TO MATCH EXISTING CONSTRUCTION.

KEYNOTES (#)
1. SNOW SCREEN FILTER – PROVIDE TWO PLY STACKABLE FILTER WITH TOOLLESS FASTENERS. SPECIFICALLY ENGINEERED FOR HIGH VOLUME/ HIGH VELOCITY AIR FLOW. FLAME RETARDENT. NON-BRITTLE DOWN TO -40F. UV, MOLD AND MILDEW RESISTENT.

   OUTER SCREEN, HEAVY DUTY COMMERCIAL GRADE, POLYESTER CORE WITH SMOOTH NON-STICK VINYL COATING. SCREEN INTERSECTING POINTS MUST BE BONDED TO ENSURE UNIFORM AIRFLOW, PREVENT SNAGGING OF AIRBORNE DEBRIS. REINFORCED GROMMETED EGES. CLEANABLE IN PLACE. MAXIMUM PRESSURE DROP NOT TO EXCEED 0.024"w.g. @ 300 FPM.

   INNER SCREEN, FINE MESH COMMERCIAL GRADE WITH INHERENT STATIC PROPERTIES. REINFORCED GROMMETED EDGES. MAXIMUM PRESSURE DROP NOT TO EXCEED 0.026"w.g. @ 300 FPM.

   FASTENING, NON-CORROSIVE NYLON TWIST TO LOCK STYLE TOOLLESS FASTENERS. OUTER AND INNER SCREEN TO USE SAME COMMON FASTENERS. LOCATE FASTENERS TO ACCESSIBLE SIDE OF SCREEN.

   PROVIDE SAME OR EQUAL TO AIR SOLUTION COMPANY COMMERCIAL GRADE STACKABLE DUAL-PLY SNOW SCREEN SYSTEM.
2. PROVIDE MONITORING OF INTAKE STATIC PRESSURE WITH ADJUSTABLE ALARM SETPOINT BACK TO FMCS.
3. QUARTZ INFRARED HEATLAMP(S) – PROVIDE UNIT(S) THAT PRODUCE A MINIMUM TOTAL EQUIVALANCE OF 4,500 WATTS, SNOW AND RAIN PROOF, MOUNTING BRACKETS, 120/240V, HARD WIRED.
4. PROVIDE THE FOLLOWNG DDC POINTS TO THE EXISTING DDC SYSTEM FOR EACH AHU:
   - PRESSURE DIFFERENTIAL
   - PRESSURE DIFFERENTIAL SET POINT
   - OUTSIDE AIR TEMPERATURE
   - OUTSIDE AIR TEMPERATURE SET POINT
   - PRESSURE DIFFERENTIAL ALARM

MECHANICAL SYMBOLS LIST
SYMBOL:	DESCRIPTION:
———	EXISTING TO REMAIN
———	NEW

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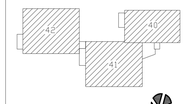

Architect/Engineer

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Drawing Title: ROOF PLAN - MECHANICAL
Approved Project Director

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Location: IOWA CITY, IOWA

Date	Drawn	Checked	Approved
6-14-13	JRM	WCR	-

Project Number: 636A8-13-003
Building Number: 40, 41, 42
Drawing Number: 1-M1
Dwg. 2 of 4

Office of Facilities Management
VA SPACES
Department of Veterans Affairs

VA FORM 08-6231

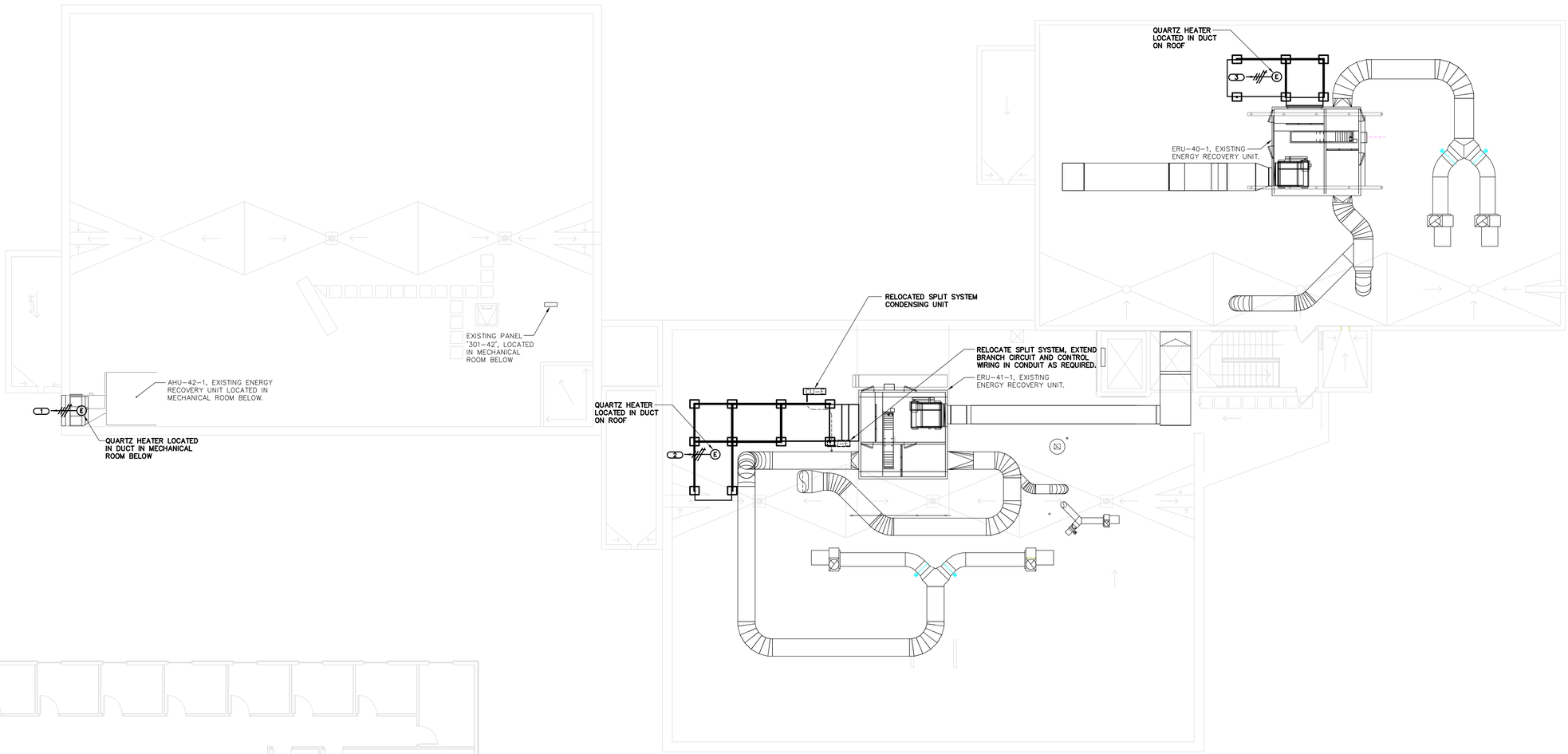
three inchesone foot
one and one-half inchesone foot
one inchone foot
three-quarters inchone foot
one-half inchone foot
three-eighths inchone foot
one-quarter inchone foot
one-eighth inchone foot

GENERAL SHEET NOTES

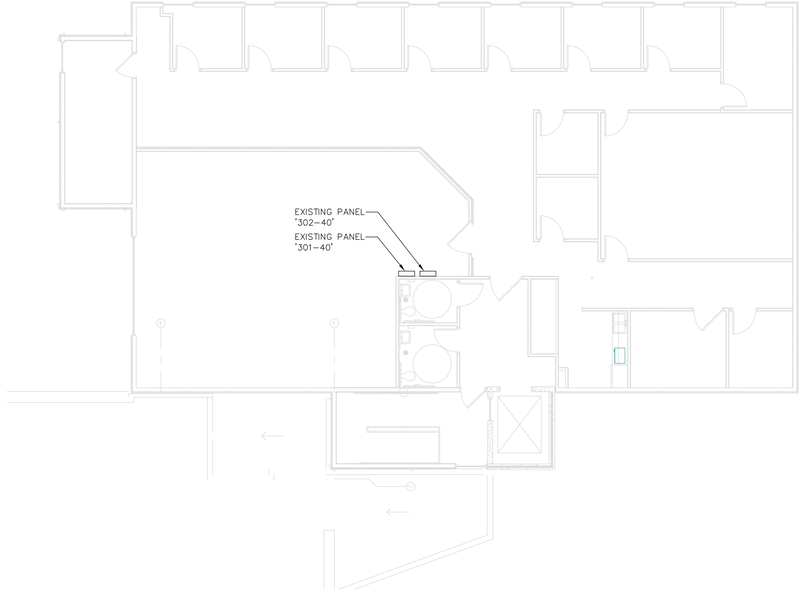
1. COORDINATE ALL ELECTRICAL DOWNTIME WITH VAMC. DOWNTIME TO BE LIMITED TO NO MORE THAN 4HR OUTAGES, OR AS COORDINATED WITH THE VAMC.

KEYNOTES (#)

1. ROUTE 3#10 & 1#10 GND IN 3/4" C. TO NEW 30A/2P BREAKER IN EXISTING PANEL '301-42' LOCATED IN SAME MECHANICAL ROOM. PROVIDE NEW BREAKER TO MATCH EXISTING PANEL RATINGS, CONSTRUCTION, AND BREAKER TYPE. REMOVE 20A/1P SPARE BREAKERS AS REQUIRED AND RETURN TO OWNER.
2. ROUTE 3#10 & 1#10 GND IN 3/4" C. TO NEW 30A/2P BREAKER IN EXISTING PANEL '301-40' LOCATED IN THIRD FLOOR BUILDING 40 MECHANICAL ROOM. REFER TO 2/1-E1. ROUTE CONDUIT ACROSS ROOF OF BUILDING 41 SIMILAR TO EXISTING CONDUITS. PROVIDE NEW BREAKER TO MATCH EXISTING PANEL RATINGS, CONSTRUCTION, AND BREAKER TYPE. REMOVE 20A/1P SPARE BREAKERS AS REQUIRED AND RETURN TO OWNER.
3. ROUTE 3#10 & 1#10 GND IN 3/4" C. TO NEW 30A/2P BREAKER IN EXISTING PANEL '301-40' LOCATED IN THIRD FLOOR BUILDING 40 MECHANICAL ROOM. REFER TO 2/1-E1. PROVIDE NEW BREAKER TO MATCH EXISTING PANEL RATINGS, CONSTRUCTION, AND BREAKER TYPE. REMOVE 20A/1P SPARE BREAKERS AS REQUIRED AND RETURN TO OWNER.



1 **ROOF PLAN - BUILDINGS 40, 41, 42 - ELECTRICAL**
SCALE: 1/8"=1'-0"



2 **3RD FLOOR PLAN - BUILDING 40**
SCALE: 1/8"=1'-0"

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Drawing Title: ROOF PLAN - ELECTRICAL
Approved Project Director

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Location: IOWA CITY, IOWA
Date: 6-14-13 | Drawn: MDS | Checked: MDS | Approved: -

Project Number: 636A8-13-003
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Drawing Number: 1-E1
Dwg. 3 of 4

Office of Facilities Management
VISN 23 PACS
Department of Veterans Affairs

DESIGN CRITERIA

1. CODES:
   INTERNATIONAL BUILDING CODE (IBC) 2006
   AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
   ALLOWABLE STRENGTH DESIGN (ASD)(AISC 360-05) THIRTEENTH EDITION, 2005
   LOAD AND RESISTANCE FACTOR DESIGN (LRFD)(AISC 360-05) THIRTEENTH EDITION, 2005
   AMERICAN WELDING SOCIETY D1.1

2. DESIGN LOADS:

OCCUPANCY CATEGORY	III
LIVE LOADS	
CATWALK	100 PSF UNREDUCIBLE
SNOW LOADS	
GROUND SNOW LOAD	25 PSF
SNOW EXPOSURE FACTOR	1.0
THERMAL FACTOR	1.0
IMPORTANCE FACTOR	1.0
FLAT-ROOF SNOW LOAD	20 PSF
DESIGN LOAD	30 PSF
RAIN-ON-SNOW SURCHARGE	5 PSF
DRIFTING LOAD	ADDITIONAL 70 PSF TAPERING TO 0 PSF OVER 15 FEET OR REFER TO PLAN

3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:

WIDE FLANGE SECTIONS	ASTM A992	Fy = 50 KSI
OTHER ROLLED SECTIONS	ASTM A36	Fy = 36 KSI
SQUARE AND RECTANGULAR HSS	ASTM A500, GR B	Fy = 46 KSI
ROUND HSS	ASTM A500, GR B	Fy = 42 KSI
PIPE SECTIONS	ASTM A53, GR B	Fy = 35 KSI
CAP AND BASE PLATES	ASTM A36	Fy = 36 KSI
CONNECTION MATERIAL	ASTM A36	Fy = 36 KSI
STIFFENER PLATES	ASTM A36	Fy = 36 KSI
ANCHOR RODS	ASTM F1554, GR 36	Fy = 36 KSI
HIGH STRENGTH BOLTS	A325 (3/4" DIAMETER UNO)	Fy = 21 KSI
TWIST-OFF BOLT/NUT/WASHER ASSEMBLIES	ASTM F1852	
HEAVY HEX NUTS	ASTM A563	
WASHERS	ASTM F436	
HEADED WELDED STEEL STUDS	ASTM A108, TYPE B	
ELECTRODES FOR ARC WELDING	AWS 5.1, E70XX	

GENERAL NOTES

1. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR HIS OR HER EMPLOYEES AND SUBCONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE CONTRACTOR AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES, AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES, OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING, OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND HIS OR HER PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE JOBSITE SAFETY. THE ENGINEER AND THE ENGINEER'S CONSULTANTS SHALL BE MADE ADDITIONAL INSUREDS UNDER THE CONTRACTOR'S GENERAL LIABILITY INSURANCE POLICY.
2. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO THAT IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.
3. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS NOTED OTHERWISE, THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION.
4. DETAILS AND NOTES ON THE STRUCTURAL DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE.
5. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL, AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPES, INSERTS AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
6. DIMENSIONS, NOTES, AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
7. WHERE NEW CONSTRUCTION INTERFACES WITH EXISTING CONDITIONS, FIELD VERIFY EXISTING DIMENSIONS, MEMBER SIZES AND ELEVATIONS SHOWN ON THE DRAWINGS PRIOR TO STARTING CONSTRUCTION. ALL DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.
8. BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, EACH BIDDER SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPES OF EQUIPMENT, ETC. THE BID SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK WITHIN THE EXISTING CONDITIONS. DISRUPTION OF NORMAL ACTIVITIES IN THE WORK AREA SHALL BE KEPT TO A MINIMUM.
9. SHOP DRAWINGS PREPARED BY SUPPLIERS, SUBCONTRACTORS, AND OTHERS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED, INITIALED AND DATED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR.
10. SHOP DRAWINGS PREPARED BY THE SUBCONTRACTORS, SUPPLIERS, AND OTHERS SHALL BE REVIEWED BY THE ARCHITECT ONLY FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. REVIEW BY THE ARCHITECT SHALL NOT BEGIN WITHOUT THE PRIOR COORDINATION AND REVIEW BY THE GENERAL CONTRACTOR. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE ARCHITECT. NOTATIONS MADE BY THE ARCHITECT ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.
11. OPTIONS ARE FOR THE CONTRACTOR'S CONVENIENCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES RESULTING FROM CHOOSING AN OPTION AND SHALL COORDINATE ALL DETAILS. THE COST OF ADDITIONAL DESIGN WORK NECESSITATED BY SELECTION OF AN OPTION SHALL BE BORNE BY THE CONTRACTOR.
12. THE COST OF ADDITIONAL DESIGN WORK DUE TO ERRORS OR OMISSIONS BY THE CONTRACTOR IN CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR.
13. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW OR RECORD SHALL BEAR THE STAMP AND SIGNATURE OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF IOWA.
14. ELEVATIONS ARE BASED ON THE FIRST FLOOR ELEVATION OF (+ XXX' - X") WHICH IS EQUAL TO CIVIL ELEVATION OF (XXX' - X").

STRUCTURAL STEEL

1. REFER TO DRAWINGS FOR DETAIL OF DECK OPENINGS. REFER TO ARCHITECTURAL MECHANICAL, ELECTRICAL DRAWINGS, ETC., FOR EXACT SIZE, LOCATION, AND COUNT OF REQUIRED OPENINGS.
2. UNLESS NOTED OTHERWISE ALL WELDS SHALL BE CONTINUOUS 1/4" FILLET WELDS.
3. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS." SEE DESIGN CRITERIA FOR BOLT SIZE AND MATERIAL ASTM DESIGNATION.
4. BOLTS IN SLOTTED HOLES SHALL BE LOCATED IN THE CENTER OF THE HOLE AFTER FIELD ASSEMBLY IS COMPLETE, UNLESS DETAILED OTHERWISE.
5. ALL STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) DESIGNATION GIVEN UNDER DESIGN CRITERIA HEREIN.
6. STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "DETAILING FOR STEEL CONSTRUCTION" AND FABRICATED AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS."
7. THE STRUCTURAL STEEL FABRICATOR AND STEEL DECKING FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL AND STEEL DECKING, RESPECTIVELY, FOR ARCHITECT'S REVIEW BEFORE FABRICATION.
8. STANDARD BOLT HOLES IN STEEL SHALL BE 1/16 INCH LARGER DIAMETER THAN NOMINAL SIZE OF BOLT USED UNLESS NOTED OTHERWISE.
9. ALL WELDS SHALL CONFORM TO THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE - STEEL" (AWS D1.1) AND BE MADE WITH APPROVED ELECTRODES.
10. ALL WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY CERTIFIED WELDERS WITH EXPERIENCE AND CERTIFICATION IN THE TYPES OF WELDING CALLED FOR. WELDERS SHALL HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN "QUALIFICATION PROCEDURES" OF THE AMERICAN WELDING SOCIETY (AWS).
11. FIELD CONNECTIONS SHALL BE WELDED OR BOLTED. SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. WELDS INDICATED WITH A SHOP WELD SYMBOL MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT. LOCATIONS OF ALL FIELD WELDS SHALL BE CLEARLY SHOWN ON THE SHOP DRAWINGS. WELDS SHALL BE DESIGNED TO BE FULLY EQUIVALENT IN STRENGTH TO BOLTED CONNECTIONS DETAILED TO MINIMIZE BENDING IN THE CONNECTION.
12. ALL BOLTED CONNECTIONS SHALL BE BEARING TYPE UNLESS NOTED OTHERWISE.
13. CUTS, HOLES (OPENINGS), ETC., REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OF HOLES AND CUTS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER OF RECORD THROUGH THE ARCHITECT. NO HOLES SHALL BE CUT IN STRUCTURAL STEEL BY OTHER TRADES UNLESS SHOWN ON STRUCTURAL DRAWINGS OR APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
14. FURNISH AND INSTALL MISCELLANEOUS STEEL (CURBS, HANGERS, EXPANSION JOINT ANGLES, STRUTS, ETC.) AS CALLED FOR OR AS NECESSARY PER ARCHITECTURAL AND MECHANICAL/ELECTRICAL DRAWINGS.

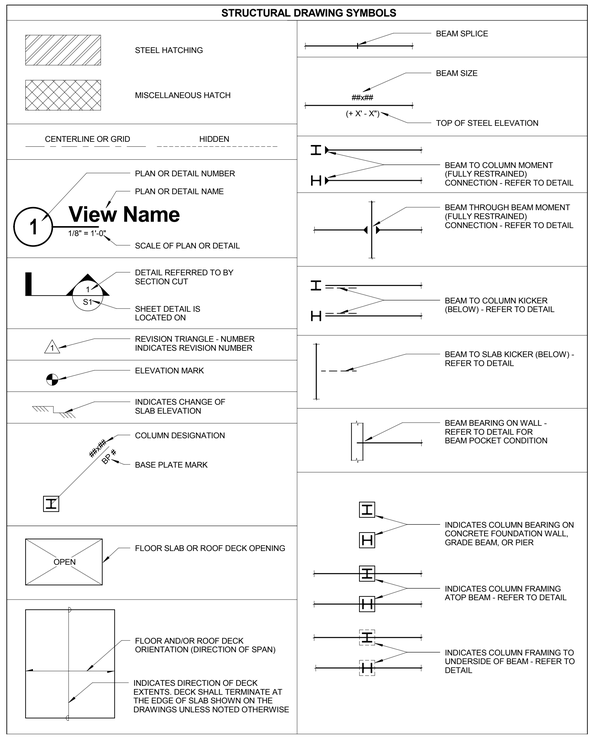
EXISTING STRUCTURAL INFORMATION

1. EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM EXISTING DRAWINGS DATED:
   A. 1950 BY ABC ARCHITECTS
   B. 1960 BY DEF ARCHITECTS
   C. 1970 BY GHI ARCHITECTS
   CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS, AND SIZES AS REQUIRED TO COMPLETE THEIR WORK.

STRUCTURAL ABBREVIATIONS LIST

#	NUMBER	KO	KNOCK-OUT
@	AT	KSF	KIPS PER SQUARE FOOT
°	DEGREES	L	LENGTH
Ø	DIAMETER	LB	POUND
AHU	AIR-HANDLING UNIT	LF	LINEAR FOOT
APPROX	APPROXIMATE, -LY	LL	LIVE LOAD
ARCH	ARCHITECT, -URE, -URAL	LLH	LONG LEG HORIZONTAL
BI	BOTTOM OF	LLV	LONG LEG VERTICAL
bf	BEAM FLANGE WIDTH	LSH	LONG SIDE HORIZONTAL
BM	BEAM	LSV	LONG SIDE VERTICAL
BP	BASE PLATE	LONG	LONGITUDINAL
BRG	BEARING	M/E	MECHANICAL/ELECTRICAL
CFSF	COLD FORM STEEL FRAMING	MAX	MAXIMUM
CJ	CONTROL JOINT	MECH	MECHANICAL
CL	CLEAR	MEZZ	MEZZANINE
CMU	CONCRETE MASONRY UNIT	MIN	MINIMUM
CONC	CONCRETE	MISC	MISCELLANEOUS
CONST	CONSTRUCTION	MK	MARK
CONT	CONTINUOUS	N	NORTH
D	DEPTH	N	LENGTH (AS PLATES)
DBL	DOUBLE	NIC	NOT IN CONTRACT
DEG	DEGREE	NO	NUMBER
DIM	DIMENSION	NTS	NOT TO SCALE
DL	DEAD LOAD	OC	ON CENTER
DTL	DETAIL	OPNG	OPENING
DWG	DRAWING	OPP	OPPOSITE
EA	EACH	PAF	POWER ACTUATED FASTENER
EF	EACH FACE	PC	PRECAST
EJ	EXPANSION JOINT	PCF	POUNDS PER CUBIC FOOT
EL	ELEVATION	PL	PLATE
ELEC	ELECTRICAL	PSF	POUNDS PER SQUARE FOOT
EMBED	EMBEDDED	PSI	POUNDS PER SQUARE INCH
EOD	EDGE OF DECK	PVC	POLYVINYL CHLORIDE
EOS	EDGE OF SLAB	R	RADIUS
EQ	EQUAL	RD	ROOF DRAIN
EQUIP	EQUIPMENT	REINF	REINFORCING, -MENT, -ED
EW	EACH WAY	REQ'D	REQUIRED
EXIST, (E)	EXISTING	REF	REFERENCE, REFER TO
EXP	EXPANSION	RTU	ROOF-TOP UNIT
EXT	EXTERIOR	SC	TC WITH CLASS A FAYING SURFACE
f'c	CONCRETE COMPRESSIVE STRENGTH	SCHED	SCHEDULE
FDN	FOUNDATION	SIM	SIMILAR
FIN	FINISHED	SP	SPACE(S)
FL	FLOOR	SPEC	SPECIFICATION(S)
FT	FOOT	SPEC'D	SPECIFIED
FTG	FOOTING	SQ	SQUARE
Fy	YIELD STRESS	STD	STANDARD
GA	GAGE OR GAUGE	STIFF	STIFFENER
GALV	GALVANIZED	T/	TOP OF
GB	GRADE BEAM	TC	PRE-TENSIONED BOLT
GC	GENERAL CONTRACTOR	TEMP	TEMPERATURE
GYP	GYPSUM	tf	BEAM FLANGE THICKNESS
HDG	HOT-DIPPED GALVANIZED	TRANS	TRANSVERSE
HORIZ	HORIZONTAL	TYP	TYPICAL
HVAC	HEATING, VENTILATION, AIR CONDITIONING	UNO	UNLESS NOTED OTHERWISE
HWS	HEADED, WELDED STUD	VERT	VERTICAL
IN	INCH	VIF	VERIFY IN FIELD
INT	INTERIOR	VIWA	VERIFY WITH ARCHITECTURAL DRAWINGS
JST	JOIST	WP	WORKING POINT
JT	JOINT	WT	WEIGHT
K, KIP	KILOPOUND (1,000 POUNDS)	WWR	WELDED WIRE REINFORCING
		YD	YARD

STRUCTURAL DRAWING SYMBOLS

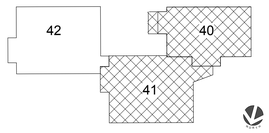


CONSTRUCTION DOCUMENTS	6-14-2013
Revisions	Date

Approved Chief Engineer
Approved Medical Center Director
Approved Associate Director
Approved Chief of Staff
Approved Director for Patient Care Service

Stamp

Key Plan



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TECHNOLOGY | MEDICAL EQUIPMENT SOLUTIONS

Drawing Title: GENERAL NOTES

Approved: Project Director

Project Title: REVISE RESEARCH ERU INTAKES

Location: IOWA CITY, IOWA

Date	Drawn	Checked	Approved
06-14-13	-	-	-

Project Number: 636A8-13-003

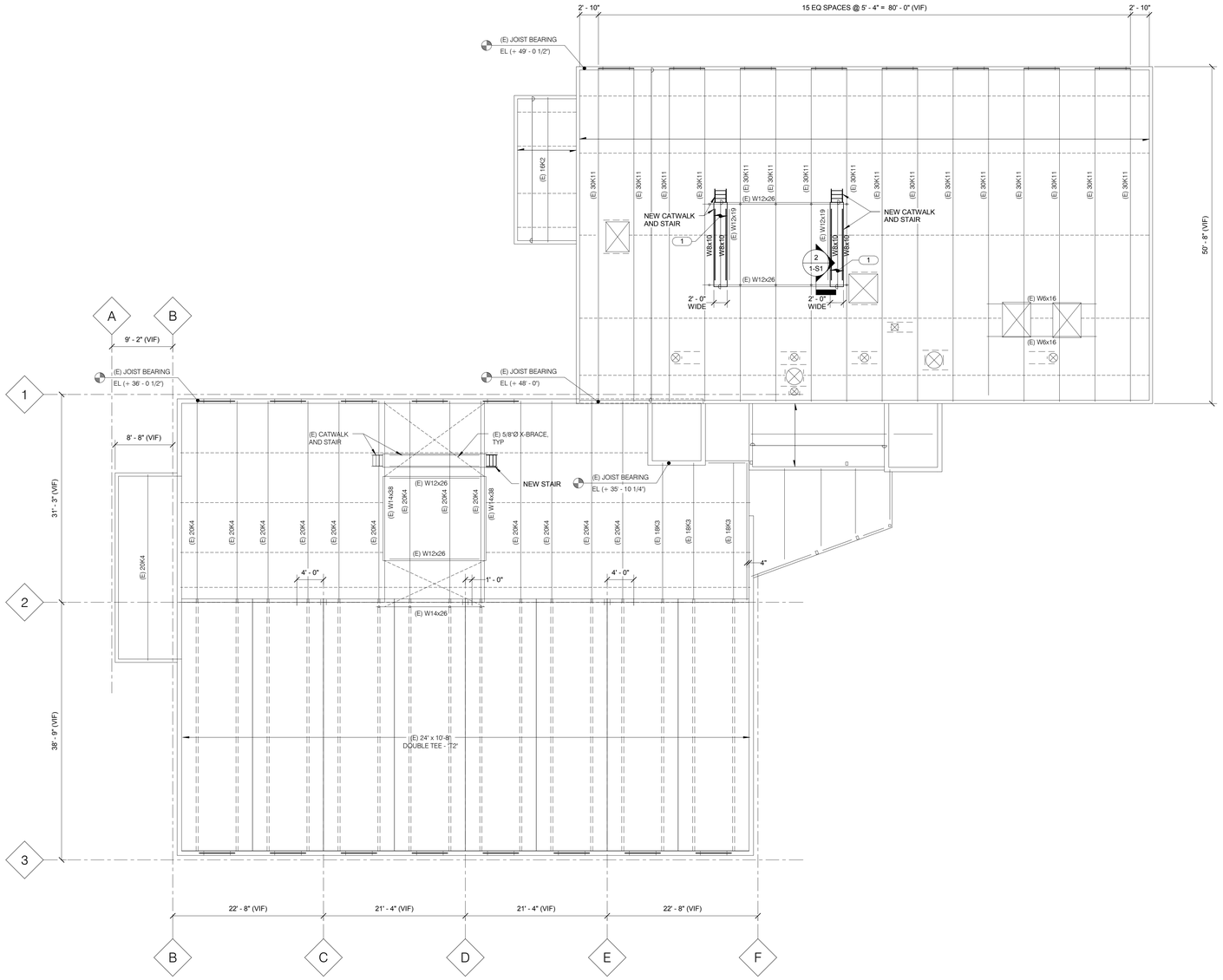
Building Number: 40, 41, 42

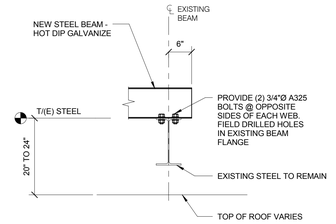
Drawing Number: 1-S0

Dwg. of 39

Office of Facilities Management

Department of Veterans Affairs





2 SECTION AT CATWALK BEAM

3/4" = 1'-0"

1 BUILDING 40 AND 41 ROOF PLAN

1/8" = 1'-0"

NOTES:

1. REFER TO S000 FOR STRUCTURAL GENERAL NOTES.
2. ALL NEW STEEL SHALL BE HOT-DIP GALVANIZED.

KEYNOTES:

1 L8-R-7 LIGHT DUTY RIVETED GRATING PROVIDE SERRATED GRATING SURFACE WITH 3/4" OR 3/16" BEARING BARS.

CONSTRUCTION DOCUMENTS	6-14-2013
Revisions	Date

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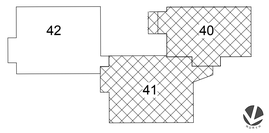
Key Plan



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TECHNOLOGY | MEDICAL EQUIPMENT SOLUTIONS

Drawing Title: ROOF FRAMING PLAN

Approved: Project Director

Project Title: REVISE RESEARCH ERU INTAKES

Location: IOWA CITY, IOWA

Date: 06-14-13 | Drawn: - | Checked: - | Approved: -

Project Number: 636A8-13-003

Building Number: 40, 41, 42

Drawing Number: 1-S1

Dwg. of 39

Office of Facilities Management

Department of Veterans Affairs